

Patent Abstracts of Japan

PUBLICATION NUMBER : 01143380
PUBLICATION DATE : 05-06-89

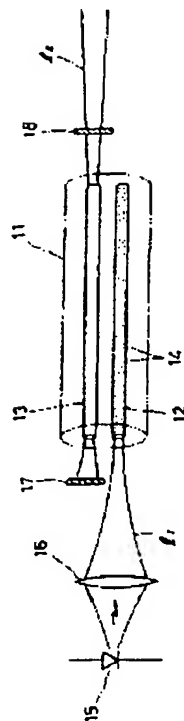
APPLICATION DATE : 30-11-87
APPLICATION NUMBER : 62299874

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INT.CL. : H01S 3/17 G02B 6/00 G02B 6/16
G02F 1/35 H01S 3/06

TITLE : OPTICAL FIBER FOR FIBER LASER



ABSTRACT : PURPOSE: To obtain a laser beam which is not mixed with a pumping light from a waveguide core by forming an optical fiber having two or more cores, and doping at least one of the cores with fluorescent substance.

CONSTITUTION: An optical fiber 11 for a fiber laser has two cores 12, 13, one 12 of which is of an active core doped with a fluorescent substance 14, such as Nd, Er, Ho, etc., and the other 13 of which is of a normal core (waveguide). When a pumping light I_1 from a light emitting element 15 is input to the core 12, a laser oscillation occurs in the core 13 by waveguide coupling, and a laser light I_2 not mixed with the light I_1 is output from the half mirror 18 of one end.

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